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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,634	10/29/2003	Meikei Ieong	YOR920030394US1 (16963)	5489	
759	90 02/25/2005		EXAM	EXAMINER	
Steven Fischman			ERDEM,	ERDEM, FAZLI	
Scully, Scott, M	urphy & Presser				
400 Garden City Plaza			ART UNIT	PAPER NUMBER	
Garden City, NY 11530			2826		
			DATE MAILED: 02/25/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application No.	Applicant(s)					
Office Action Summary		10/696,634	IEONG ET AL.					
		Examiner	Art Unit					
		Fazli Erdem	2826					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication experiod for reply specified above is less than thirty (30) days, at period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, r . reply within the statutory minimum riod will apply and will expire SIX (6 atute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely NONTHS from the mailing date of this co	y. ommunication.				
Status								
1)⊠	Responsive to communication(s) filed on 0	<u>6 December 2004</u> .						
2a)	This action is FINAL . 2b)⊠ 1	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims							
4)🖂	4)⊠ Claim(s) 1 and 4-35 is/are pending in the application.							
	4a) Of the above claim(s) <u>10-23</u> is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>24-35</u> is/are allowed. 6)⊠ Claim(s) <u>1 and 4-7</u> is/are rejected. 7)⊠ Claim(s) <u>8 and 9</u> is/are objected to.							
6)🖂								
8)∐	Claim(s) are subject to restriction ar	d/or election requiremen	t.					
Applicati	ion Papers							
9)[The specification is objected to by the Exam	niner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents.	ents have been received ents have been received priority documents have l reau (PCT Rule 17.2(a)).	I. I in Application No been received in this National	Stage				
Attachmen		list of the certified copies	; not received.					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Inter	view Summary (PTO-413) er No(s)/Mail Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date		e of Informal Patent Application (PTO	≻152)				

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 24-35 allowed.
- 2. Claims 8 and 9 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Isomura (JP 2001068708) in view of Hayafuji et al. (5,677,922) further in view of Flores et al. (6,759,277)

Regarding Claims 1 and 4-7. Isomura discloses a semiconductor element, solar battery element and manufacture of the semiconductor element where in Fig. 4 a polysilicon layer 4 is formed having a different crystal orientation than layer 5 which is directly on top of it. Isomura fails to disclose a conductive layer between the two layers having two different crystal orientations and the required hydrophilic/hydrophobic surface requirement. However, Hayafuji et al. disclose a semiconductor laser with crystalline window layer where in Fig. 1(a), layers 26 and 8 have different crystal orientations and there are conducting layers between them. Furthermore, Flores et al. disclose a crystalline silicon die array and method for assembling

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crystalline silicon sheets onto substrates where in Fig. 13 element 1310 and the claim 14 disclose the required hydrophilic/hydrophobic surface requirement.

It would have been obvious to one of having ordinary skill in the art the time the invention was made to include the required conductive layer between the first and the second layers having different crystal orientations and the hydrophilic/hydrophobic surface requirement in Isomura et al. as taught by Hayafuji et al. and Flores et al., in order to have a semiconductor device with more functionality.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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February 21, 2005

NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
SECHNOLOGY CENTER 2800

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